

## **BARD AIR CONDITIONING UNIT CONDENSER MOTOR WIRING**

## **DOPPLER METEOROLOGICAL RADAR WSR-88D**




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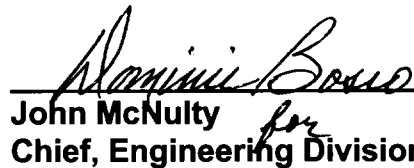
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FAA APPROVAL:

 Date 3-16-00  
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Program Director for Operational Support


NWS APPROVAL:

 Date 4.12.0  
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Chief, Engineering Division

DoD APPROVAL:

BY ORDER OF THE SECRETARY OF THE AIR FORCE

MICHAEL E. RYAN, General, USAF  
Chief of Staff

 Date 4/16/00  
Edward L. Berkowitz, Chief  
System Support Branch  
Operational Support Facility  
TOMA

**NWS: EHB-6, Maintenance Note 31**  
**DoD: TO 31P1-4-108-586**  
**FAA: EEM Modification Handbook 6345.1 CHG 18, Chap 15**

**1. SUBJECT**

Bard Air Conditioning Condenser Motor Wiring.

**2. PURPOSE**

This document provides instructions to repair damaged wires in the Bard air conditioners (power wires to the condenser motor) preventing further damage.

NOTE: This change has been reviewed and evaluated for impact upon year 2000 (Y2K) functionality and has no detrimental effect upon Y2K compliance issues.

For additional information concerning this document, contact the Operational Support Facility (OSF) Hotline, Norman, Oklahoma; phone number: (800) 643-3363 or (405) 366-2980 or by e-mail at [Hotline@osf.noaa.gov](mailto:Hotline@osf.noaa.gov). An electronic copy of this document can be found at the following internet address:  
[www.osf.noaa.gov/ssb/sysdoc/techman/tmlinks.htm](http://www.osf.noaa.gov/ssb/sysdoc/techman/tmlinks.htm)

**3. SITES AFFECTED**

This document applies to all WSR-88D RDA sites with Bard air conditioners.

**4. ESTIMATED COMPLETION DATE**

This maintenance must be completed no later than 60 days after receipt of this document.

**5. EQUIPMENT AFFECTED**

Bard air conditioning units attached to the RDA shelter.

**6. SPARES AFFECTED**

Not applicable.

**7. MODIFICATION ACCOMPLISHED BY**

Site electronic technicians will coordinate with the activity responsible for air conditioner maintenance. Two technicians are required to perform these procedures. Either activity may accomplish this modification; however, it is the site electronic technician's responsibility to ensure compliance.

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**8. MATERIAL REQUIRED**

<b>Nomenclature</b>	<b>Qty</b>
Electrical tape	1 roll
Tie wraps	10 each

The materials listed above will not be shipped to each site. Use existing stock to accomplish this task.

**9. SOURCE OF MATERIALS**

Not applicable.

**10. SPECIAL TOOLS AND TEST EQUIPMENT REQUIRED**

Not applicable.

**11. TIME AND PERSONNEL REQUIRED**

<b>Work Phases</b>	<b>Work-hours</b>
Unpacking	0.0
Disassembly	0.25
Installation	0.0
Assembly	0.75
Operational Check	0.0
Total Work-hours	1.0

**12. DOCUMENTS AFFECTED**

Not applicable.

**13. VERIFICATION STATEMENT**

This modification was successfully performed at the OSF.

**14. DISPOSITION OF REMOVED AND REPLACED PARTS/MATERIALS**

Not applicable.

**15. PROCEDURES**

See [ATTACHMENT 1](#).

**16. FAA DISTRIBUTION**

This directive is distributed to selected offices and services within Washington headquarters, the William J. Hughes Technical Center, the Mike Monroney Aeronautical Center, regional Airway Facilities divisions, and Airway Facilities field offices having the following facilities/equipment: NXRAD.

**17. CHANGES TO TABLE OF CONTENTS (FAA)**

This chapter will be included in the next revision to the table of contents for FAA Order 6345.1, Electronic Equipment Modification Handbook - Next Generation Weather Radar (NEXRAD).

**18. RECOMMENDATIONS FOR CHANGES (FAA)**

Forward any recommendations for changes to this directive through normal channels to the National Airway Systems Engineering Division, AOS-200, Operational Support.

**19. REPORTING INSTRUCTIONS**

**a. NWS**

Report completed modification on WS Form A-26, Engineering Management Reporting System Maintenance Record, according to instructions in EHB-4, Part 2, using reporting code RAAC. Also, record the modification number in block 17(a) as M31 (see [ATTACHMENT 3](#) for a completed sample of WS Form A-26).

**b. FAA (Changes to Recorded Data)**

Enter this document number, date, and chapter number in the appropriate FAA Form 6032-1, Airway Facilities Modification Record.

**c. DoD**

Update the AFTO Form 95 to show TCTO compliance. Report TCTO compliance in accordance with TO 00-20-2, Table 3-10, Rule 9.

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**d. All Agencies**

Complete [ATTACHMENT 2](#) and fax, or mail information to:

- (1) Mail Address:      System Support Branch, Logistics Section  
                                 Operational Support Facility  
                                 3200 Marshall Ave., Suite 101  
                                 Norman, Oklahoma 73072-8028
  
- (2) Fax Number:      (405) 366-6553  
                                 ATTN: Documentation Section

**ATTACHMENT 1**

**BARD AIR CONDITIONING CONDENSER MOTOR WIRE RELOCATION PROCEDURES**

**TOOLS REQUIRED:**

Nut Driver, 5/16-inch

1. Perform the following shutdown steps:
  - a. At the Radar Data Acquisition (RDA) Equipment Shelter (Main) Power Distribution Panel (UD7A2), remove power to the Bard air conditioner units by turning **OFF** circuit breakers CB 2, 4, 6 (ganged) for air conditioner (AC) unit #1, and CB 12, 14 and 16 (ganged) for AC unit #2.
  - b. Proceed to the outside of the RDA shelter to the Bard air conditioning units.
2. Perform the following steps to repair and reroute the wires:
  - a. Remove the lower right side grille by removing the (8) eight screws using a 5/16-inch nut driver. (See [Figure 1](#)).
  - b. Locate and inspect the fan motor wires for any bare wires or worn spots.
  - c. Using electrical tape, cover each of the bare wires or worn areas with several wraps.
  - d. Using electrical tape, secure the three loose wires together overlapping the previously taped areas by approximately 2 inches to each side.
  - e. Permanently secure any loose or dangling wires, using tie wraps, to a fixed position. (See [Figure 2](#)).
  - f. Reinstall the lower right side grille.
  - g. Repeat steps 2.a. through steps 2.f. for the second Bard 5-ton AC unit.
3. Perform the following powerup procedures:
  - a. Proceed to the inside of the RDA shelter.
  - b. At the RDA Equipment Shelter (Main) Power Distribution Panel (UD7A2), return power to the Bard air conditioner unit by turning **ON** circuit breakers CB 2, 4, 6 (ganged) for AC unit #1, and CB 12, 14 and 16 (ganged) for AC unit #2.
  - c. This completes the procedures.

ATTACHMENT 1 (Continued)

BARD AIR CONDITIONING CONDENSER MOTOR WIRE RELOCATION PROCEDURES

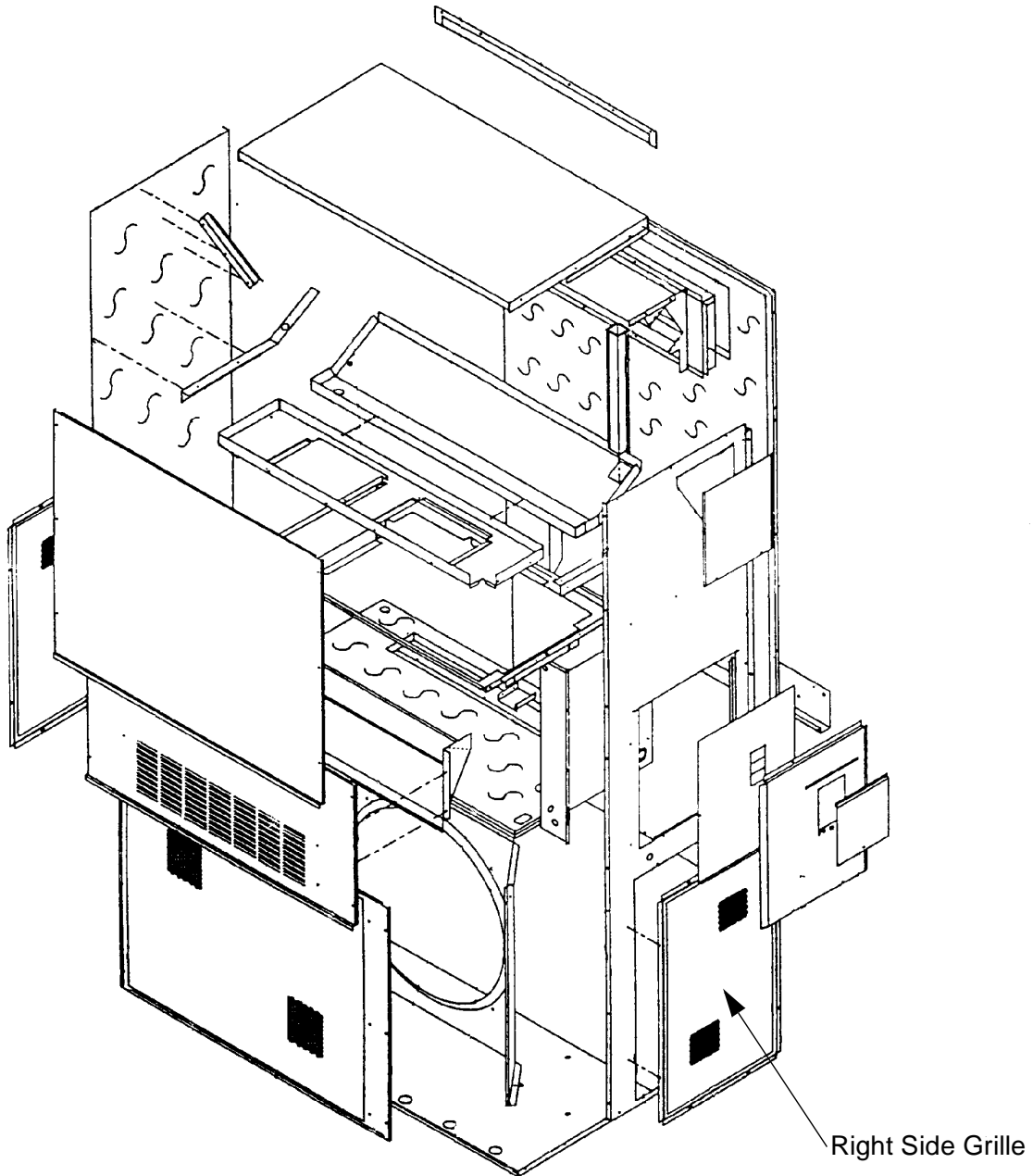


Figure 1. Outside Component Layout



ATTACHMENT 1 (Continued)

BARD AIR CONDITIONING CONDENSER MOTOR WIRE RELOCATION PROCEDURES

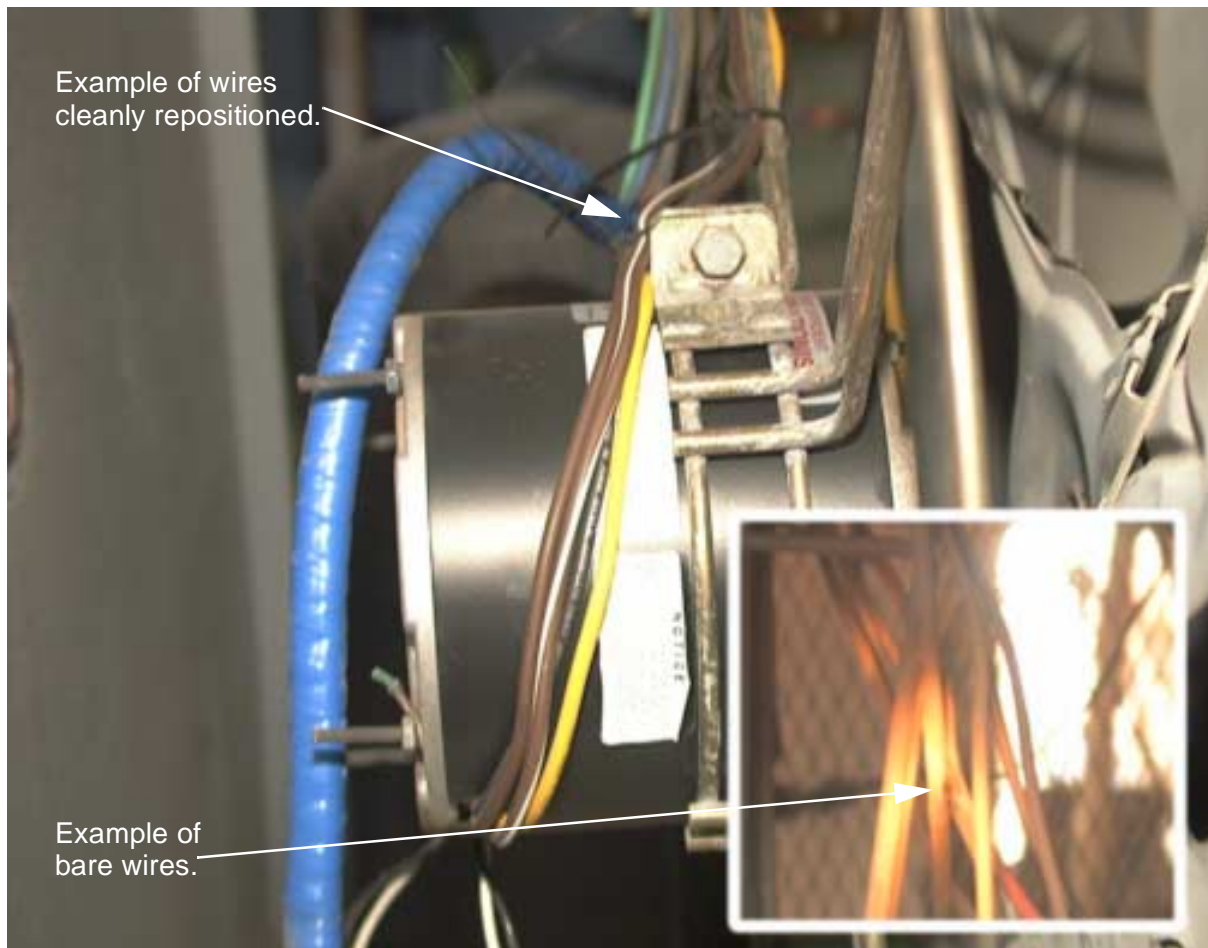


Figure 2. Example of Bard Air Conditioning Unit Wire Repositioning

1. Mailing Address: System Support Branch, Documentation Section  
WSR-88D Operational Support Facility  
3200 Marshall Ave., Suite 101  
Norman, OK 73072-8028
2. FAX Number: (405) 366-6553  
ATTN: Documentation Section

WS HQ USE ONLY		<b>WS FORM A-26 (4/94)</b> <small>Supersedes WS Form A-23 and WS Form H-23, which are obsolete</small>				U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION NATIONAL WEATHER SERVICE				Document Number <b>G 49978</b>			
<b>General Information</b>		1. Open Date <b>03/ 10 / 00</b>	Time <b>0900</b>	2. Initials <b>DKR</b>	3. Response Priority (check one) <input type="radio"/> Immediate <input type="radio"/> Routine <input checked="" type="checkbox"/> Not Applicable	4. Close Date <b>03 / 10 / 00</b>		Time <b>1000</b>					
5. Description <b>REPAIRED AND RELOCATED BARD A/C CONDENSER MOTOR WIRES AT RDA SHELTER</b>													
<b>Equipment Information</b>		6. Station ID <b>CYS</b>	7. Equipment Code <b>RAAC</b>	8. Serial Number <b>793304-02</b>	9. TM <b>E</b>	10. AT <b>M</b>	11. How Mal. <b>999</b>						
12. EQUIPMENT OPERATIONAL STATUS TIMES		a. Fully Operational <input type="checkbox"/>	b. Logistics Delay <input type="checkbox"/>	Partly Operational	c. All Other <input type="checkbox"/>	d. Logistics Delay <input type="checkbox"/>	Not Operational		e. All Other <input type="checkbox"/> <b>1:00</b>				
13. Parts Failure Information													
14. Work Load Information													
Block #	a. ASN	b.	NSN	c.	TM	d. AT	e.	How Mal.	f.	Qty.	g. Maint. Hrs.	Type	Staff Hrs.
1												a. Routine	
2												b. Non-routine	
3												c. Travel	
4												d. Misc.	<b>01:00</b>
5												e. Overtime	
<b>Miscellaneous Information</b>		15. Maintenance Comments <b>TAPED/SECURED WIRES IN AC UNIT IAW MAINT NOTE 31. ALSO PERFORMED NOTE ON SECOND AC UNIT (SN: 793308-02)</b>										16. Initials <b>DKR</b>	
17. SPECIAL PURPOSE REPORTING		a. Mod. No. <b>M31</b>	b. Mod./Act./Deact. Date <b>03/10/00</b>	c.	d.	e.							
18. CONFIGURATION MGMT. REPORTING (use as directed)		a. Block #	b. Manufacturer's Part No. of New Part		c. Revision No. of New Part								